INSTALLATION INSTRUCTIONS FOR IN-LINE DUCT FANS™

READ AND SAVE THESE INSTRUCTIONS IMPORTANT SAFETY INSTRUCTIONS

WARNING - "For General Ventilating Use Only. Do Not Use to Exhaust Hazardous or Explosive Materials and Vapors."
WARNING - TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:
Use this unit only in the manner intended by the manufacturer. If you have any questions, contact the manufacturer.

All electrical connections to this fan must be made in an approved type junction box. This junction box must be permanently attached to the fan at the point where the motor wires exit the metal duct pipe. The junction box must be reliably mounted to prevent it from, shifting or rotating. The junction box can be attached via 2 or more sheet metal screws, rivets or machine screws with a nut and lock washer. Power to the fan must be supplied following all building and/or electrical codes.

Before Servicing Or Cleaning Unit, Switch Power Off At Service Panel And Lock Service Panel To Prevent Power From Being Switched On Accidentally. When The Service Disconnecting Means Cannot Be Locked, Securely Fasten A Prominent Warning Device, Such As A Tag To The Service Panel.

Suncourt Inc. does not provide electrical connection information.
For your safety and protection follow all instructions and adhere to applicable building and/or electrical codes.

EXPOSURE TO AIRFLOW TEMPERATURES EXCEEDING 140°F WILL PERMANENTLY DESTROY THE ELECTRIC MOTOR VOIDING THE WARRANTY

NEVER EXPOSE YOUR IN-LINE DUCT FAN™ TO TEMPERATURES OVER 140°F (60°C)

GENERAL INSTALLATION NOTES

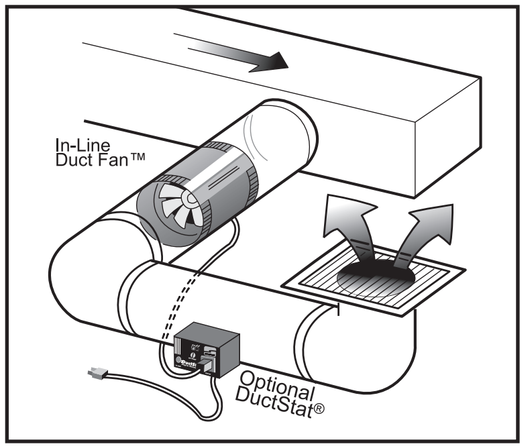
For maximum performance and minimum noise, the best location to install your In-Line Duct Fan™ is 6 - 10 feet from the register that needs the boost.
To prevent air leaks use a good quality duct tape to seal seams in the ductwork after installing the In-Line Duct Fan™.
By utilizing tapered reducers you may install larger diameter duct fans in smaller diameter ducts.
Always leave your In-Line Duct Fan™ accessible for maintenance, cleaning or repair.

VARIABLE SPEED CONTROL

The in-line duct fans can be speed controlled using the Suncourt VS100 solid state speed control. Follow the installation instructions included with the VS100. (Purchased Separately)

NEVER USE A RHEOSTAT TO CONTROL FAN SPEED.

MODEL	VOLTS	Hz	WATTS COURANTS	START-UP AMPS
DB100	120	60	30	0.35
DB200	120	60	30	0.35
DB204	120	60	30	0.30
DB205	120	60	30	0.35
DB206	120	60	30	0.35
DB208	120	60	55	0.70
DB210	120	60	120	1.50
DB212	120	60	120	1.50
DB306	120	60	30	0.35
DB308	120	60	60	0.85
DB310P	120	60	135	1.70
DB412P	120	60	180	1.57
DB414P	120	60	180	1.57
DB416P	120	60	180	1.57
DB6GTP	120	60	55	0.70
NOTE: THESE MOTORS ARE INDUCTIVE LOADS				



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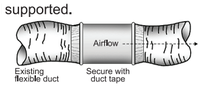
WNT600-0210-C01

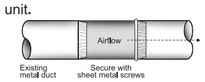
MODELS: DB205, 206, 208, 210, 212, 306, 308, 310, 412, 414, 416, 6GT

1. Locate the place in the duct where you wish to install the In-Line Duct Fan™. Align arrow label on unit in the direction of the airflow.

FLEXIBLE DUCT
2a. Install connectors onto any uncrimped ends of the unit. Then simply cut the flexible duct and slide the In-Line Duct Fan™ in place by slipping the cut flexible duct ends over the connectors or crimped ends on the In-Line Duct Fan™, making sure the unit is well supported. Complete the installation by securing the In-Line Duct Fan™ to the flexible duct with good quality duct tape or nylon cable ties.



METAL DUCT
2b. Install connectors onto any uncrimped ends of the unit, or crimp your existing ductwork. Then simply place the existing duct over the crimped ends of the unit, or the existing crimped ductwork into the unit. Secure the In-Line Duct Fan™ to the metal duct with the supplied #6 sheet metal screws spaced evenly around the circumference on each end of the unit.



IMPORTANT NOTICE

Single Speed
The motor of your In-Line Duct Fan™ may have 1 White and 1 Black wire or 2 Black wires. If you have a motor with a White and Black wire, connect the White motor wire to the White supply wire and the Black motor wire to the Black supply wire. If you have a motor with 2 black wires, connect either of the Black wires to the White supply wire and the other Black wire to the Black supply wire.

Two Speed
Make sure you connect the colored wire as shown in the table below. Failure to connect correctly will destroy the motor. No warranty claim for an incorrectly wired motor will be accepted by Suncourt.

IMPORTANT WARNING

Due to the power of a booster fan, adequate protective measures must be taken to avoid possible contact with the impeller blades. In-Line Duct Fans™ are designed to boost only dry (ambient) heated or cooled airflow in duct conduits of forced air systems with temperatures between 40°F (4°C) and 140°F (60°C). Suncourt Inc. accepts no responsibility for use of this product in other applications.

ELECTRICAL CONNECTIONS AND WIRING

"**WARNING -** To Reduce The Risk Of Fire, Electrical Shock Or Injury To Persons, Observe The Following:"

Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction.

Your In-Line Duct Fan™ must be connected to a 110/120 Volt AC, 60Hz fuse or circuit breaker protected power source only in a manner approved by all applicable codes. Never connect your In-Line Duct Fan™ to a 240 Volt AC blower motor or other 240 Volt system.

All electrical connections to this fan must be made in an approved type junction box. This junction box must be permanently attached to the fan at the point where the motor wires exit the metal duct pipe. The junction box must be reliably mounted to prevent it from, shifting or rotating. The junction box can be attached via 2 or more sheet metal screws, rivets or machine screws with a nut and lock washer. Power to the fan must be supplied following all building and/or electrical codes.

The ground wire (GREEN) must be terminated at the furnace or other suitable ground. The power source must be protected by a fuse or circuit breaker rated at a minimum of 15 amperes.

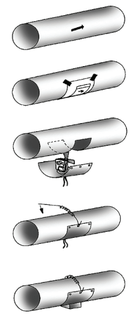
You may also supply power to your In-Line Duct Fan™ via a Suncourt DS100 DuctStat® Temperature Sensistive Switch™ or a standard on/off switch. (Purchased Separately)

Operating range is 40°F (4°C) to 140°F (60°C). Exposure to temperatures outside this range voids the warranty.

INSTALLATION INSTRUCTIONS

MODEL: DB100

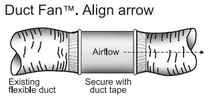
1. Locate the place in the duct where you wish to install the In-Line Duct Fan™.
2. Tape the enclosed template to the duct with the arrow pointing in the direction of the airflow. Cut out the required opening by first drilling a pilot hole and cutting along the dashed line using a jig saw or tin snips.
3. Place the Inductor® In-Line Duct Fan™ in the opening, making sure that the fan blade can turn freely. Align the arrow on the unit in the direction of airflow.
4a. Connect the spring through the middle hole provided in the base plate, stretch the spring over the duct and through the middle hole on the other side of the loose plate. Bend the end of the spring over to secure, providing a snug installation.
You may complete the installation by covering the seams in the duct with a good quality duct tape.
4b. Secure the In-Line Duct Fan™ in position with the supplied #6 sheet metal screws using the provided holes in the base plate of the unit.



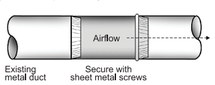
MODELS: DB200, DB204

1. Locate the place in the duct where you wish to install the In-Line Duct Fan™. Align arrow label on unit in direction of airflow.

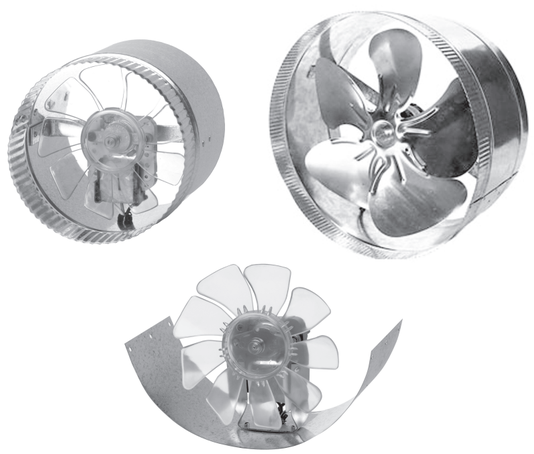
FLEXIBLE DUCT
2a. Simply cut the flexible duct and slide the In-Line Duct Fan in place by slipping the cut flexible duct ends over the crimped ends on the In-Line Duct Fan™, making sure the unit is well supported. Complete the installation by securing the In-Line Duct Fan to the flexable duct with good quality duct tape or nylon cable ties.



METAL DUCT
2b. Remove a section of the existing ductwork and slide the In-Line Duct Fan™ in place by slipping the duct ends over the crimped ends of the unit. Complete the installation by securing the In-Line Duct Fan to the metal duct with the supplied #6 sheet metal screws spaced evenly around the circumference on each end of the unit.



BOOST AIRFLOW



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WIRING INSTRUCTIONS FOR IN-LINE DUCT FANS™ WITHOUT POWER CORDS ATTACHED:

MODELS	White (neutral or common) wire from power source	Black (hot or line) from power source	Green (ground) wire from power source
DB100 DB200 DB204 DB205 DB206 DB208 DB210 DB212 DB412 DB414 DB416 DB6GT	Black wire or White wire (see note above) from motor.	Black wire from motor.	Green wire from motor.
DB306	Black wire from motor.	LOW fan speed: Yellow wire from motor. HIGH fan speed: Red wire from motor.	Green wire from motor.
DB308, DB310	White wire from motor.	LOW fan speed: Red wire from motor. HIGH fan speed: Black wire from motor.	Green wire from motor.

CLEANING AND MAINTENANCE

Suncourt Inc. recommends that you clean your In-Line Duct Fan™ at regular intervals, similar to what is recommended for the fan of your furnace, no less than twice a year. Keep your In-Line Duct Fan™ free of lint, dust, and debris. The In-Line Duct Fan™ must never be exposed to temperatures over 140°F (60°C).

ONE YEAR WARRANTY

Subject to the following limitations, Suncourt Inc. (manufacturer) warrants that the In-Line Duct Fan™ will, for 1 (one) year from date of original retail purchase, but not exceeding 2 (two) years from date of manufacture, remain free from appearance of defects in workmanship or materials. This warranty is subject to the following limitations: (a) manufacturer's liability is limited to the replacement or repair of the unit, as decided by the manufacturer; (b) a defective unit must be returned, prepaid, with proof of purchase, well packaged to avoid damage in transit; and (c) this warranty does not apply to defects resulting from the alteration, abuse, accidental damage, unauthorized repair, or misuse of the unit. This warranty is given in lieu of all other warranties, guarantees, and conditions on manufacturer's part, and the manufacturer shall have no tortious or other liability in respect to this In-Line Duct Fan™.

Actual product appearance may differ from illustrations.

Suncourt reserves the right to modify any or all of its products' features, designs, components and specifications without notice.